

CITY OF EUGENE FIELD TESTED MATERIALS ASSURANCE GUIDE

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Progress Report. AND OPERATION	DESCRIPTION OF TEST	TEST METHOD			FORM 734-	City of Eugene Verification Frequency Guidelines
		ODOT	WAQTC	AASHTO		
SECTION 00330 - EARTHWORK						
Stone Embankment Material (See Sec. 330.16(a)) Soil and Soil/Aggregate Mixtures	Gradation					1/Project or 1/Source/Year with Approved Source Documents on File with the City
Establishing Maximum Density (for Compaction)	Density Curve Bulk Specific Gravity Family of Curves			T 99 Method D T 85 T 272	3468 3468 3468FC	1/Soil Type
Compaction	Nuclear Gauge Coarse Particle Correction Deflection Testing			T 310 T 224	1793S 1793S	1/200'/Lane 1 pass/Lane
	Contractor must demonstrate, by compaction testing or acceptable visual means, that the material, equipment, and process used for compaction achieves the specification requirements. If the material, equipment, or process changes, or conditions indicate a non-specification product, the Contractor must re-demonstrate that it is achieving the specifications requirements.					
Select Topsoil (See Section 01040.14)	Compliance				4000	1/Source and 1/Type of Soil
SECTION 00331 - SUBGRADE STABILIZATION						
Aggregate backfill	Material must meet the requirements of Section 00331.10					1/Source/Year with Approved Source Documents on File with the City
Water	Material must meet the requirements of Section 00340					Visual
Compaction by Nuclear Gauge	Material must meet the requirements of Section 00331					1/400 SQ.FT. (min. 4' wide)

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SECTION 00390 - RIPRAP PROTECTION						Visual
Fill Material & Riprap	Material must meet the requirements of Section 00390					
Filter Blanket	Gradation See 00390.13	Material must meet the requirements of Section 00390				
Grouted Riprap Sand	Material must meet the requirements of Section 00390					
Portland Cement	Compliance				4000	Review Documentation for acceptance
SECTION 00405 - TRENCH EXCAVATION, BEDDING, AND BACKFILL						Visual
TRENCH FOUNDATION -- Excavation below grade only						
Selected general backfill	Material must meet the requirements of Section 00330.13					
Selected granular backfill	Material must meet the requirements of Section 00330.14					
Selected stone backfill	Material must meet the requirements of Section 00330.15					
Other approved material	Material must meet the requirements of Section 00405.11					
Compaction	Material must meet the requirements of Section 00405					
Bedding						Visual
Commercial 3/4" - 0 Aggregate	Material must meet the requirements of Section 00641					
Continuous cradle of Commercial Grade Concrete (See Section 00440)	Material must meet the requirements of Section 00440					

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Pipe Zone Material						Visual
Flexible Pipe	Use the Listed Material requirements under Bedding					
Rigid Pipe: Aggregate Base (1"- 0) or (3/4"-0) aggregate	Material must meet the requirements of Section 00641					
Sand/Gravel Blend	Material must meet the requirements of Section 00405.14(d)					
Compaction	Material must meet the requirements of Section 00405.44					
Trench Backfill						Visual
Class A Backfill - Native or common	Material must meet the requirements of Section 00330.43					
Class B Backfill - 1"-0 or 3/4"-0 Granular Material	Material must meet the requirements of Section 00641					
Class D Backfill - Pit run, bar run or Sand/Gravel Blend	Material must meet the requirements of Section 00405.14					
Class E Backfill - Controlled Low Stength Material	Material must meet the requirements of Section 00442					
Establishing Maximum Density	Density Curve			T 99	3468	Soil: 1/Soil Type Granular Material: 1/Gradation or Source
	Bulk Specific Gravity			T 85	3468	
	Family of Curves			T 272	3468FC	
Compaction	Nuclear Gauge			T 310	1793S	Trench Depth > 4' = Visual up to 4' depth, 1 test/100' length at 4' depth and top lift; Visual at 2' depth
	Coarse Particle Correction			T 224	or 1793B	

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SECTION 00430 - SUBSURFACE DRAINS				T 2 T 248 T 27		Visual
Granular Drain Backfill Material	Sampling Reducing Sieve Analysis					
					1792	
SECTION 00440 - COMMERCIAL GRADE CONCRETE			TM 2	T 152 T 119 T 309	3573WS or 4000C	1 per each set of cylinders
Mixture	Sampling Air Content Slump Concrete Temperature					
Structural Items	Strength					
Other Items (Except Visual Accept.)	Strength					
				T 22 & T 23	4000C	^(S) 1 Set/Day
				T 22 & T 23	4000C	^(S) 1 Set/Day Pole Foundation: 1 Set/10yd ³ (min. 1/day)
^(S) 1 Set Represents a minimum of 4 Cylinders						
SECTION 00442 - CONTROLLED LOW STRENGTH MATERIALS (CLSM)						
CLSM Mixture	Mix Proportions Trial Batch Strength					1/Project or Source
				T 22 & T 23	4000C	
SECTION 00445 - SANITARY, STORM, CULVERT, SIPHON, AND IRRIGATION PIPE - INCLUDED WITH SECTION 00405						
SECTION 00460 - PAVED CULVERT END SLOPES						
Commercial Grade Concrete	Material must meet the requirements of Section 00440					

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		ODOT	WAQTC	AASHTO			
SECTION 00470 - MANHOLES, CATCH BASINS AND INLETS							
Commercial Grade Concrete	Material must meet the requirements of Section 00440						
Sump Backfill- Crushed or Uncrushed, well graded from 4"- 2" or 6"- 2" (See Section 00470.17)						Visual	
Base Drain Backfill- Aggregate Base or Selected Granular Backfill	Material must meet the requirements of Section 00405.17					Visual	
Excavation, Backfill and Foundation	Material must meet the requirements of Section 00405					Visual	
SECTION 00480 - DRAINAGE CURBS							
Aggregate Gradation	Material must meet the requirements of Section 00480.11					Visual	
Commercial Grade Concrete	Material must meet the requirements of Section 00440					Visual	
Dense Graded HMAC Mixture Level 2, 1/2" or 3/8"	Material must meet the requirements of Section 00744					Visual	
SECTION 00641 - AGGREGATE SUBBASE, BASE, AND SHOULDERS							
Aggregate Production	Abrasion			T 96	4000	Visual	
Aggregate Subbase	Sampling Reducing Sieve Analysis Sand Equivalent			T 2		1/Project or 1/Source	
Grading				T 248			
(See 00641.10)				T 27			
				T 176			
Aggregate Base and Shoulders	Abrasion	TM 208		T 96	4000	Visual	
Grading	Degradation						1/Project or 1/Source
Aggregate Base (See 02630)	Sampling						
Aggregate Shoulder (See 02640)	Reducing						
Open Graded Aggregate Base	(1) Sieve Analysis						
(See 02630.11)	(2) Sand Equivalent						
(1) Perform at least 3 tests	Fracture						
(2) May be waived by QAE		TP 61	1792				

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PLACEMENT						
Aggregate Base material only Plant Mix Applications Only Establishing Maximum Density & Optimum Moisture (Mix Design)	Density Curve Coarse Particle Correction Bulk Specific Gravity			T 99 T 224 T 85	3468 3468	1/Size per Source
Compaction	Nuclear Gauge Deflection			T 310	1793B	1 test/200'/Lane 1 pass/Lane
(Individual tests must meet Specification)						
SECTION 00706 EMULSIFIED SLURRY SEAL SURFACING						
Aggregate Production	Sampling Reducing Sieve Analysis			T2 T248 T27/T11		1/Source
Emulsified Asphalt Cement Emulsified Asphalt Polymer Modified Emulsion	Compliance				1792	
Additives Mineral Filler	Compliance Compliance				4000	Review Documents Submitted per Specifications
Material must meet the requirements of Section 00706.16					4000	Review Documents Submitted per Specifications
SECTION 00730 - ASPHALT TACK COAT						
Tack	Compliance				4000	Review Documentation for Acceptance
SECTION 00744 - HOT MIXED ASPHALT (HMAC) CONCRETE						
Materials	Provide testing as required in Section 00744.16					Review Documentation for Acceptance
Compaction	Provide testing as required in Section 00744.49					

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		ODOT	WAQTC	AASHTO				
SECTION 00745 - HOT MIXED ASPHALT CONCRETE			TM 5	T 168		1/500 tons, min. 2/Full day of paving		
Mixture Acceptance - Dense Graded HMAC without RAP Gradation Ignition method (Residual aggregate from AASHTO T 308)	Sampling Reducing Sieve analysis				T 30		2277	
							Asphalt Content Ignition Method	Sampling Reducing
Asphalt Content	TM 5	T 308		2277	1/500 tons, min. 2/Full day of paving			
				Mixture Acceptance - HMAC with RAP Gradation (Residual aggregate from AASHTO T 308) Asphalt Percentage Ignition Method		Sampling Reducing Sieve analysis Sampling Reducing Asphalt Content		
TM 5	T 168	T 308			2277			

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RAP Percentage <i>(1) Required at start of production and if meters fail to meet specification</i>	RAP Moisture ColdFeed Moisture	TM 321 <i>(1) TM 322</i>	TM 6	T255/T265	2277 2277	Review Documentation for Acceptance (part of the annual verification of approved mix designs)
Applies to All Methods						
Mix Design Verification <i>(Dense graded HMA only)</i>	Gyratory Specimen Max. Specific Gravity	TM 326		T 209	2050GV 2050	1/Year/Mix or if asphalt source changes Review Documentation for Acceptance (part of the annual verification of approved mix designs)
	Bulk Specific Gravity			T 166		
	Tensile Strength Ratio			T 283	2050tsr	
	Rut Susceptibility	TM 320			N/A	
Maximum Density Test	Max. Specific Gravity			T 209	2050	2/full day of paving
						Review Documentation for Acceptance

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Compaction	Nuclear Density		TM 8		1793A	Projects < 1000' in length 1/100'/Lane Projects > 1000' in length 1/200'/Lane Minimum of 4 tests per project
Smoothness Testing						Visual - Straightedge 10% length and at manholes, intersections and joints
SECTION 00748 - PAVEMENT REPAIR						
Aggregate Base	Material must meet the requirements of Section 00332.10					Visual
Compaction by Nuclear Gauge	Material must meet the requirements of Section 00332					Projects > 1000' in length 1/200'/Lane
HMAC	Material must meet the requirements of Section 00748					1/400 SQ.FT. (min. 4' wide) per lift
Compaction by Nuclear Gauge						
SECTION 00755 - CONTINUOUSLY REINFORCED CONCRETE PAVEMENT						
SECTION 00756 - PLAIN PORTLAND						
Mixture	Sampling		TM 2		3573WS or 4000C	1/per set of cylinders
	Air Content			T 152		
	Slump			T 119		
	Yield			T 121		
	Concrete Temperature			T 309		
(S) 1 Set Represents a minimum of 4 cylinders	Water/Cement Ratio			T 121		Review Documentation for Acceptance
	Strength			T 22 & T 23	4000C	(S) 1 Set of Cylinders per 300 lane feet; min. 2 per full day of paving
	Smoothness Testing (Smoothness)					Visual - Straightedge 10% length and at manholes, intersections and joints
Thickness of Pavement	Sticking Measure or measure height of forms prior to concrete placement	TM 775				1 measurement/100' and at grade breaks

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